Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*Mr. Tiénou-Gustafson & Mr. Bielmeier*

Geometry, Period

Due Date: Mon, 3 Nov 2014

**Geometry**

**Homework**



Area & Perimeter of Rectangles & Triangles ~ *Review for Quiz on Monday!*

**Use for entire sheet:**

* **Area of rectangle and square=length\*width (A=l\*w)**
* **Area of triangle = (A=)**
* **Perimeter means to add up all the sides**
* ***ALWAYS* write the formula down first, then plug in the values that are given.**
* ***SMILE ☺***

**I. Area & Perimeter Word Problems** (If a diagram is not given, **draw one!**)

|  |  |
| --- | --- |
| 1a) A square garden has a side measuring 22ft. How much fence is needed to enclose the garden?  1b) If the garden is split in half diagonally to be used by two neighbors, what would the size of each triangular plot be? | 2) Find the perimeter and area of the figure. If necessary, round to the nearest tenth.  Perimeter: \_\_\_\_\_\_\_ Area: \_\_\_\_\_\_\_ |
| 3) A park wants to put a fence around their soccer field. The field is 75 yards long and 55 yards wide.  a. How many yards of fencing will they need for the field?  b. What is the area of the soccer field? | 4) An architect is installing a triangular window with the dimensions shown below. How big a window does he need to order, in feet squared?  https://tse2.mm.bing.net/th?id=HN.608054390343143290&pid=1.7  15in  12in  18in  4a) How much wood does he need to order to enclose the window on all sides? |

**II. Compound Figures**

|  |  |
| --- | --- |
| 6) ABDE is a square with a side length of 9 units. If ED = DC, what is the area of the entire shape ABCE?  9  *A*  *E*  *D*    *C*  *B* | 7)      8b) What is  the area of  the polygon?  14ft |

**III. Proportions**

|  |  |
| --- | --- |
| 8) The perimeter of a rectangle is 36 inches. The length is twice the width. What is the length and width of the rectangle? | 9) The area of a rectangle is 8 inches. The length of the rectangle is half as long as its width. Find the length and width of the rectangle. |

**IV. Expressions with Area & Perimeter**

|  |  |
| --- | --- |
| 10) What is the area of the rectangle below? | 11) What is the area of the rectangle below? |

**V. Complex Figures**

|  |  |
| --- | --- |
| 12) Jose wants to redecorate his room. On one wall he wants to put up new wallpaper. The wall is a 13-by-11 foot rectangle and has a door which takes up a 7-by-3-foot rectangular area. After the area of the door is subtracted, how many square feet of wall remain to be covered? | 13) Find the area of the shaded region. |
| 14) To promote recycling, the ground of the neighborhood playground is being covered by shredded tires. The sandbox will not be covered. What is the area, in square feet, of the shredded tire portion of the playground? | 15) ***Bonus: English 1 Review!*** *What is the difference between a compound & a complex sentence? How does this terminology relate to compound & complex figures?* |